

Safety Data Sheet 4849343 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/09/2019 Version: 1.0

roduct form : Substance Jubiation rame : 4-Metryl-3-(tiflucometryliphenylisocyanate JAS No :: 15103-64-1 Yodukt code :: 4489-3-3 Simula :: CBHC3NO Yodukt code :: 4489-3-43 Yodukt code :: 4480-3-43 Yodukt code :: 4480-3-43 Yodukt code :: 4480-343 Yodukt code :: 4480-341 Yodukt code :: 4480-341 Yodukt code :: 4480-341 Yodukt code :: 1480-341 Yodukt code :: 1480-341 Yodukt code :: 1480-341 Yodukt code :: 1480-341 Yodukt code : 1480-341 Yodukt code :: 1480-341 Yodukt code :: 1480-341 Yodukt code <th>SECTION 1: Identification</th> <th></th> <th></th> <th></th>	SECTION 1: Identification			
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Signal word (GHS-US): DangerHazard statements (GHS-US): H227 - Combustible liquid H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 - May cause respiratory irritationPrecautionary statements (GHS-US): P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P284 - In case of inadequate ventilation wear respiratory protection P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell	Hazard pictograms (GHS-US)			
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Precautionary statements (GHS-US) P 210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking P 261 - Avoid breathing dust/fume/gas/mist/vapors/spray P 264 - Wash skin thoroughly after handling P 270 - Do not eat, drink or smoke when using this product P 271 - Use only outdoors or in a well-ventilated area P 280 - Wear protective gloves/protective clothing/eye protection/face protection P 284 - In case of inadequate ventilation wear respiratory protection P 301+P 312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell	Hazard statements (GHS-US)	H302+H312+H332 - Harmful if swallowe H315 - Causes skin irritation H319 - Causes serious eye irritation H334 - May cause allergy or asthma sym		
2/09/2019 EN (English US) SDS ID: 4849343 Page 1	Precautionary statements (GHS-US)	P261 - Avoid breathing dust/fume/gas/m P264 - Wash skin thoroughly after handli P270 - Do not eat, drink or smoke when P271 - Use only outdoors or in a well-ver P280 - Wear protective gloves/protective P284 - In case of inadequate ventilation	ist/vapors/spray ing using this product ntilated area clothing/eye protection/face protection wear respiratory protection	vell
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	P304 P305 P312 P312 P332 P332 P332 P332 P332 P342 P362 P362 P403 P403	2+P352 - If on skin: Wash with plenty of s 4+P340 - If inhaled: Remove person to fre 5+P351+P338 - If in eyes: Rinse cautious es, if present and easy to do. Continue rin 2 - Call a POISON CENTER or doctor/phy 1 - Specific treatment (see supplemental f 0 - Rinse mouth 2+P313 - If skin irritation occurs: Get med 7+P313 - If eye irritation persists: Get med 7+P314 - Take off contaminated clothing 1 0+P378 - In case of fire: Use dry sand, dr 3+P233 - Store in a well-ventilated place. 3+P235 - Store in a well-ventilated place. 5 - Store locked up 1 - Dispose of contents/container to an ap	esh air and keep ly with water for using vsician if you fee irst aid instruction ical advice/atten dical advice/atten toms: Call a pois and wash it befo y chemical or alc Keep container Keep cool	several minutes. Remove contact I unwell ns on this label) tion son center/doctor/ re reuse ohol-resistant foam to extinguish tightly closed
2.3. Other hazards				
Other hazards not contributing to the classification	: Lach	nrymator.		
2.4. Unknown acute toxicity (GH	IS US)			
Not applicable				
SECTION 3: Composition/info	rmat <u>ion on ir</u>	ngredients		
8.1. Substance				
Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
4-Methyl-3-(trifluoromethyl)phenylisocyanal (Main constituent)	e	(CAS No) 51903-64-1	<= 100	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp. Sens. 1, H334 STOT SE 3, H335
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measure	èS			
4.1. Description of first aid mea				
First-aid measures general	wher	ase of accident or if you feel unwell, seek re possible). Move the affected personnel	away from the c	contaminated area.
First-aid measures after inhalation		nove person to fresh air and keep comfort iration. Get immediate medical advice/atte		g. If not breathing, give artificial
First-aid measures after skin contact	: Was	h with plenty of soap and water. Get imm	ediate medical a	dvice/attention.
First-aid measures after eye contact		ediately flush eyes thoroughly with water		
	proo	ent and easy to do. Continue rinsing. Get		
First-aid measures after ingestion	: Do N	ent and easy to do. Continue rinsing. Get IOT induce vomiting. Never give anything th out with water. Get immediate medical		
-	: Do N mou	NOT induce vomiting. Never give anything th out with water. Get immediate medical		
1.2. Most important symptoms a	· Do N mou and effects, both : The	NOT induce vomiting. Never give anything th out with water. Get immediate medical	advice/attention	
4.2. Most important symptoms a Symptoms/injuries A 4.3. Indication of any immediate	Do N mour and effects, both : The 2.2)	NOT induce vomiting. Never give anything th out with water. Get immediate medical acute and delayed most important known symptoms and effe	advice/attention	
Most important symptoms a Symptoms/injuries Indication of any immediate Freat symptomatically.	and effects, both : The : The 2.2)	NOT induce vomiting. Never give anything th out with water. Get immediate medical acute and delayed most important known symptoms and effe and/or in section 11.	advice/attention	
4.2. Most important symptoms a Symptoms/injuries Symptoms/injuries 4.3. Indication of any immediate Treat symptomatically. SECTION 5: Firefighting meas	and effects, both : The : The 2.2)	NOT induce vomiting. Never give anything th out with water. Get immediate medical acute and delayed most important known symptoms and effe and/or in section 11.	advice/attention	
Symptoms/injuries	: Do N mour and effects, both : The 2.2) e medical attention sures : Alco	NOT induce vomiting. Never give anything th out with water. Get immediate medical acute and delayed most important known symptoms and effe and/or in section 11.	advice/attention	ed in the labelling (see section

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Explosio	n hazard	: Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers.
5.3.	Advice for firefighters	
Firefighti	ing instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Protectic	on during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
SECTI	ON 6: Accidental release mea	asures
6.1.	Personal precautions, protective e	quipment and emergency procedures
General	measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.
6.1.1.	For non-emergency personnel	
Emerger	ncy procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2.	For emergency responders	
Protectiv	ve equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emerger	ncy procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2.	Environmental precautions	
Avoid re	lease to the environment. Notify author	ities if product enters sewers or public waters.
6.3.	Methods and material for containm	nent and cleaning up
For conta	ainment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods	for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
Other inf	formation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
No addit	ional information available	
SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precauti	ons for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene	measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2.	Conditions for safe storage, includ	ling any incompatibilities
Technica	al measures	: Comply with applicable regulations.
Storage	conditions	: Keep container closed when not in use. Air sensitive. Moisture sensitive. Keep contents under inert gas.
Incompa	tible materials	: Refer to Section 10 on Incompatible Materials.
Storage	area	: Store in dry, well-ventilated area.
SECTI	ON 8: Exposure controls/pers	sonal protection
<u>8.1.</u>		
0.1.	Control parameters	

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.

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Other information

: Safety shoes. 29 CFR 1910.136: Foot Protection.

Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.
SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 190 - 191 °C
Flash point	: 79 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.288 g/ml (@ 25 °C)
Molecular mass	: 201.1452 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
Refractive index	: 1.48 (@ 20 °C)
SECTION 10: Stability and reactivit	у
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and st	torage conditions.
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
Keep away from heat, sparks and flame.	
10.5. Incompatible materials	
Strong acids. Strong oxidizing agents.	
10.6. Hazardous decomposition produc	ts
Under normal conditions of storage and use, had fire, see Section 5.	azardous decomposition products should not be produced. Hazardous decomposition products in case of
SECTION 11: Toxicological informa	ation
11.1. Information on toxicological effect	

: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

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4-Methyl-3-(trifluoromethyl)phenylisocyanate	e (51903-64-1)
ATE US (oral)	500.000 mg/kg body weight
ATE US (dermal)	1100.000 mg/kg body weight
ATE US (gases)	4500.000 ppmV/4h
ATE US (vapors)	11.000 mg/l/4h
ATE US (dust, mist)	1.500 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	

12.2. Persistence and degradability

No additional information available

Bioaccumulative potential 12.3.

No additional information available

Mobility in soil 12.4.

No additional information available

12.5. **Other adverse effects**

No additional information available

SECTION 13: Disposal consideration	ons
13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.

SECTION 14: Transport information

12/09/2019	EN (English LIS)	SDS ID: 4840343	5/7
Packing group (DOT)	: III - Minor Danger		
	6		
Hazard labels (DOT)	: 6.1 - Poison		
Transport hazard class(es) (DOT)	: 6.1 - Class 6.1 - Poisonous mate	erials 49 CFR 173.132	
	flash point more than 61 degree	s C and boiling point less than 300 degrees C	
Proper Shipping Name (DOT)	: Isocyanates, toxic, n.o.s.		
UN-No.(DOT)	: UN2206		
Department of Transportation (DOT) In accordance with DOT Transport document description	: UN2206 Isocyanates, toxic, n.o. than 300 degrees C), 6.1, III	s. (flash point more than 61 degrees C and boiling	point less

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DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: E - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length, but is prohibited from carriage on passenger vessels in which the limiting number of passengers is exceeded.
DOT Vessel Stowage Other	: 25 - Shade from radiant heat,40 - Stow "clear of living quarters"
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 2206
Proper Shipping Name (IMDG)	: ISOCYANATES, TOXIC, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 2206
Proper Shipping Name (IATA)	: Isocyanates, toxic, n.o.s.
Class (IATA)	: 6.1 - Toxic Substances
Packing group (IATA)	: III - Minor Danger
SECTION 15: Poquilatory information	

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

4-Methyl-3-(trifluoromethyl)phenylisocyanate CAS No 51903-64-1 100%	
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This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

No additional information available

EU-Regulations No additional information available

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National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Full text of H-phrases:

	0111-01118363.		
	Acute Tox. 4 (Dermal)		Acute toxicity (dermal) Category 4
	Acute Tox. 4 (Inhalation)		Acute toxicity (inhalation) Category 4
	Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4
	Eye Irrit. 2A		Serious eye damage/eye irritation Category 2A
	Flam. Liq. 4		Flammable liquids Category 4
	Resp. Sens. 1		Respiratory sensitisation Category 1
	Skin Irrit. 2		Skin corrosion/irritation Category 2
	STOT SE 3		Specific target organ toxicity (single exposure) Category 3
	H227		Combustible liquid
	H302		Harmful if swallowed
	H312		Harmful in contact with skin
	H315		Causes skin irritation
	H319		Causes serious eye irritation
	H332		Harmful if inhaled
	H334		May cause allergy or asthma symptoms or breathing difficulties if inhaled
	H335		May cause respiratory irritation
NFPA he	ealth hazard	: 3 - Short exposure could ca residual injury even though given.	ause serious temporary or prompt medical attention was
NFPA fir	e hazard	: 2 - Must be moderately heat temperature before ignition	ated or exposed to relatively high a can occur.

: 0 - Normally stable, even under fire exposure conditions,
and are not reactive with water.

	•
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

NFPA reactivity

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.